

In the Claims

1. (Original) Optical board connector assembly for optically connecting an array of optical fibres to a circuit board embedded device (4) comprising:

- a connector housing comprising a support structure;
- at least one fibre fixation part

characterized in that

said fibre fixation part comprises a ferrule part for containing said optical fibres and a support part adapted to cooperate with said support structure such that said ferrule part protrudes at least partly from said connector housing.

2. (Original) Optical board connector assembly according to claim 1, wherein said assembly comprises at least one resilient member adapted to exert a force on said fibre fixation part in the direction of said protruding ferrule part.

3. (Original) Optical board connector assembly according to claim 2, wherein said at least one resilient member is prebiased.

4. (Currently Amended) Optical board connector assembly according to claim 2 or 3, wherein said connector housing comprises a space adapted to accommodate said optical fibres in a variety of bending states.

5. (Currently Amended) Optical board connector assembly according to ~~any one of the preceding claims~~ 1, wherein said ferrule part comprises a two-dimensional high-density array of holes for containing said optical fibres.

6. (Currently Amended) Optical board connector assembly according to ~~any one of the preceding claims~~ 1, wherein said ferrule part comprises a

plurality of high-density through-holes comprising substantially straight edges.

7. (Original) Optical board connector assembly according to claim 6, wherein said holes have a substantially polygonal shape, preferably octagonal.

8. (Currently Amended) Optical board connector assembly according to ~~any one of the preceding~~ claims 1, wherein said connector housing is adapted to allow float of said fibre fixation part in one or more directions.

9. (Currently Amended) Optical board connector assembly according to ~~any one of the preceding~~ claims 1, wherein said fibre fixation part comprises a cavity for receiving said optical fibres.

10. (Currently Amended) Optical board connector assembly according to ~~any one of the preceding~~ claims 1, wherein the fibre fixation part includes a location surface positioned a distance from an outer surface of the ferrule part in the direction of protrusion of the ferrule part.

11. (Original) Optical board connector assembly according to claim 10, wherein the location surface includes an opening for receiving an alignment pin.

12. (Original) Optical board connector assembly according to claim 10, wherein the connector includes a plate against which the location surface abuts.

13. (Currently Amended) Fibre fixation part for use in an optical board connector assembly according to ~~any one of the preceding~~ claims 1.